Export of nuclear goods

1. SHRI VIJAY J. DARDA: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that during the last 30 years India has not exported nuclear goods or technology;

(b) if so, whether it is India's self-imposed denial of role amongst comity of Nations; and

(c) whether some efforts are being initiated to move towards the direction of having meaningful interactive relations with developed and developing Nations?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) No, Sir.

(b) Does not arise, in view of (a) above.

(c) Against the backdrop of enhanced expectations of opportunities for international cooperation in the civilian nuclear energy sector, India has been exploring the possibility of cooperation with all potential partners.

Thorium Reserves in Andhra Pradesh

2. SHRIMATI N.P. DURGA: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that as per the Atomic Minerals Directorate for Exploration and Research the highest *i.e.*, 3.73 million tonnes out of 10.21 million tonnes of Thorium Mineral Monazite is available in Andhra Pradesh;

(b) the areas of Thorium reserves in Andhra Pradesh;

(c) if so, the quantity of Thorium Mineral Monazite explored from Andhra Pradesh so far; and

(d) the efforts, the Department of Atomic Energy is making to explore more thorium from the State?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) to (c) Yes, Sir. Andhra Pradesh has the highest available resources of Monazite explored so far in the country. The Atomic Minerals Directorate for Exploration and Research (AMD), a constituent unit of this department, has identified 3.73 million tonnes of Thorium Mineral Monazite in 21 deposits located in 8 districts of Andhra Pradesh *viz.* Srikakulam, Vijaynagram, Vishakapatnam, East Godavari, West Godavari, Krishna, Guntur and Nellore.

(d) Survey and exploration by AMD are in progress in potential areas along the coastal tracts of Andhra Pradesh.

Uranium reserve

3. SHRI TAPAN KUMAR SEN:
SHRI MOHAMMED AMIN:

Will the PRIME MINISTER be pleased to state:

(a) the present usable Uranium reserve in the country;

(b) the uranium requirement per annum for sustaining present nuclear power production;

(c) the proven uranium reserve which are being explored and the status of exploration; and

(d) the potential uranium reserve, which are yet to be explored for commercial production?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) The Atomic Minerals Directorate for Exploration and Research (AMD), a constituent unit of this Department, has so far established about 1,07,268 tonnes of in *situ* Uranium Resources (U_3O_8) out of which usable/recoverable resources are estimated at 60,000 - 70,000 tonnes of U_3O_8.

(b) Present installed PHWR capacity in India is 3800 MWe. Current requirement of uranium for operation at normative capacity factor is 430 tonnes.

(c) The deposit at Gogi, Gulbarga district, Karnataka has been taken up for exploratory mining. The deposit at Rohil, Rajasthan and the deposit at Chitrial, Nalgonda district, Andhra Pradesh is under exploratory drilling for establishment of the extent of deposit.

(d) Exploration is completed at Mohuldih, East Singhbhum District, Jharkhand, Lambapur-Peddagattu Nalagonda District, Tummalapalle Cuddapah District, Andhra Pradesh and Kylleng-Pyndengshiong-Mawthabah (Domaisiat), West Khasi Hills District, Meghalaya. Action has been initiated for commercial production of these reserves.

Nuclear power projects

4. SHRI TAPAN KUMAR SEN:
SHRI MOHAMMED AMIN:

Will the PRIME MINISTER be pleased to state:

(a) the details of nuclear power projects under execution and progress made so far;

(b) the amount spent in these projects during last three years;

(c) the tentative date of commissioning of these projects;

(d) whether fuel supply has been adequately linked up for these projects; and

(e) if not, the reasons therefor?

THE MINISTER OF STATE IN THE PRIME MINISTER'S OFFICE (SHRI PRITHVIRAJ CHAVAN): (a) to (c) Details of nuclear power projects under execution, progress so far, tentative commissioning schedule and expenditure incurred in the last three years are:

Project	Progress/ Commissioning Schedule	Expenditure (Rs. crore)		
		2004-05	2005-06	2006-07
1	2	3	4	5
Kaiga Atomic Power Project Units 3&4 (2 x 220 MWe)	Unit 3: commissioned Unit 4: 97% / Mar. 2008	377	434	381
Rajasthan Atomic Power Project Units 5&6 (2x220 MWe)	90% Unit 5: Feb 2008 Unit 6: Feb 2009	404	424	407